

## 37 CFR 1.98(A)(1) Reference Citation

**LISTING OF UNITED STATES PATENTS - U series**

| EXAMINER INITIALS | REFERENCE NUMBER (U SERIES) | PATENT NUMBER | ISSUE DATE | NAME OF PATENTEE OR APPLICANT | PAGE/LINE AND FIGURE/ELEMENT OF RELEVANT MATERIAL AND/OR IDENTIFICATION OF PRIORITY APPLICATION IN WHICH REFERENCE IS CITED ("Of Record" indicates that the reference is already of record.) |
|-------------------|-----------------------------|---------------|------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | U-001                       | 3722986       | Mar-73     | Tagnon                        | Of Record                                                                                                                                                                                    |
|                   | U-002                       | 4460275       | Jul-84     | Spriggs                       | Of Record                                                                                                                                                                                    |
|                   | U-003                       | 4504892       | Mar-85     | Zulfilar                      | Of Record                                                                                                                                                                                    |
|                   | U-004                       | 4606626       | Aug-86     | Shinohara                     | Of Record                                                                                                                                                                                    |
|                   | U-005                       | 4637697       | 1/1/1987   | Freeman                       | Of Record                                                                                                                                                                                    |
|                   | U-006                       | 4641934       | 2/1/1987   | Freeman                       | Of Record                                                                                                                                                                                    |
|                   | U-007                       | 4642112       | 2/10/1987  | Freeman                       | Of Record                                                                                                                                                                                    |
|                   | U-008                       | 4655565       | 4/1/1987   | Freeman                       | Of Record                                                                                                                                                                                    |
|                   | U-009                       | 4710193       | 12/1/1987  | Volk                          | Of Record                                                                                                                                                                                    |
|                   | U-010                       | 4881804       | 11/1/1989  | Cohen                         | Of Record                                                                                                                                                                                    |
|                   | U-011                       | 4881805       | 11/1/1989  | Cohen                         | Of Record                                                                                                                                                                                    |
|                   | U-012                       | 4898461       | 2/1/1990   | Portney                       | Of Record                                                                                                                                                                                    |
|                   | U-013                       | 4995714       | 2/1/1991   | Cohen                         | Of Record                                                                                                                                                                                    |
|                   | U-014                       | 5050981       | 9/1/1991   | Roffman                       | Of Record                                                                                                                                                                                    |
|                   | U-015                       | 5056908       | 10/1/1991  | Cohen                         | Of Record                                                                                                                                                                                    |
|                   | U-016                       | 5076684       | 12/1/1991  | Simpson et al.                | Of Record                                                                                                                                                                                    |
|                   | U-017                       | 5089023       | 2/1/1992   | Swanson                       | Of Record                                                                                                                                                                                    |
|                   | U-018                       | 5089024       | 2/18/1992  | Christie et al.               | Of Record                                                                                                                                                                                    |
|                   | U-019                       | 5096285       | 3/1/1992   | Silberman                     | Of Record                                                                                                                                                                                    |
|                   | U-020                       | 5100226       | 3/1/1992   | Freeman                       | Of Record                                                                                                                                                                                    |
|                   | U-021                       | 5104212       | 4/1/1992   | Taboury et al.                | Of Record                                                                                                                                                                                    |

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|  | U-022 | 5116111 | 5/1/1992  | Simpson et al.  | Of Record |
|  | U-023 | 5117306 | 5/1/1992  | Cohen           | Of Record |
|  | U-024 | 5120120 | 6/1/1992  | Cohen           | Of Record |
|  | U-025 | 5129718 | 7/1/1992  | Futhey et al.   | Of Record |
|  | U-026 | 5178636 | 1/1/1993  | Silberman       | Of Record |
|  | U-027 | 5225858 | 7/1/1993  | Portney         | Of Record |
|  | U-028 | 5229797 | 7/1/1993  | Futhey et al.   | Of Record |
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|  | U-030 | 5344447 | 9/1/1994  | Swanson         | Of Record |
|  | U-031 | 5349471 | 9/1/1994  | Morris et al.   | Of Record |
|  | U-032 | 5384606 | 1/1/1995  | Koch et al.     | Of Record |
|  | U-033 | 5444106 | 8/1/1995  | Zhou et al.     | Of Record |
|  | U-034 | 5581405 | 12/1/1996 | Meyers et al.   | Of Record |
|  | U-035 | 5629800 | 5/1/1997  | Hamblen         | Of Record |
|  | U-036 | 5652638 | 7/1/1997  | Roffman et al.  | Of Record |
|  | U-037 | 5674284 | 10/1/1997 | Change et al.   | Of Record |
|  | U-038 | 5683457 | 11/1/1997 | Gupta et al.    | Of Record |
|  | U-039 | 5699142 | 12/1/1997 | Lee et al.      | Of Record |
|  | U-040 | 5715091 | 2/1/1998  | Meyers          | Of Record |
|  | U-041 | 5724258 | 3/3/1998  | Roffman         | Of Record |
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|  | U-043 | 5748282 | 5/1/1998  | Freeman         | Of Record |
|  | U-044 | 5760871 | 6/1/1998  | Kosoburd et al. | Of Record |
|  | U-045 | 5777719 | 7/1/1998  | Williams et al. | Of Record |
|  | U-046 | 5888122 | 3/1/1999  | Gupta et al.    | Of Record |
|  | U-047 | 5895422 | 4/1/1999  | Hauber          | Of Record |
|  | U-048 | 5895610 | 4/1/1999  | Chang et al.    | Of Record |
|  | U-049 | 5968095 | 10/1/1999 | Norrby          | Of Record |
|  | U-050 | 6007747 | 12/1/1999 | Blake et al.    | Of Record |
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|  | U-053 | 6082856   | 7/1/2000   | Dunn et al.          | Of Record |
|  | U-054 | 6086204   | 7/1/2000   | Magnante             | Of Record |
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|  | U-058 | 6154323   | 11/1/2000  | Kamo                 | Of Record |
|  | U-059 | 6215096   | 4/1/2001   | Von Wallfeld et al.  | Of Record |
|  | U-060 | 6224211   | 5/1/2001   | Gordon               | Of Record |
|  | U-061 | 6270220   | 8/1/2001   | Keren                | Of Record |
|  | U-062 | 6325510   | 12/1/2001  | Golub et al.         | Of record |
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|  | U-064 | 6413276   | 7/1/2002   | Werblin              | Of Record |
|  | U-065 | 6429972   | 8/1/2002   | Ota et al.           | Of Record |
|  | U-066 | 6457826   | 10/1/2002  | Lett                 | Of Record |
|  | U-067 | 6536899   | 3/1/2002   | Fiala                | Of Record |
|  | U-068 | 6547391   | 4/1/2003   | Ross, III et al.     | Of Record |
|  | U-069 | 6585375   | 7/1/2003   | Donitzky et al.      | Of Record |
|  | U-070 | 6616275   | 9/1/2003   | Dick et al.          | Of Record |
|  | U-071 | 6830332   | 12/1/2004  | Piers et al.         | Of Record |
|  | U-072 | 6835204   | 12/1/2004  | Stork et al.         | Of Record |
|  | U-073 | 6848790   | 2/1/2005   | Dick et al.          | Of Record |
|  | U-074 | 6851803   | 2/1/2005   | Wooley et al.        | Of Record |
|  | U-075 | 6972032   | 12/1/2005  | Aharoni et al.       | Of Record |
|  | U-076 | 5220359   | 6/15/1993  | Roffman              | Of Record |
|  | U-077 | 5800532   | 9/1/1998   | Lieberman            | Of Record |
|  | U-078 | 6089711   | 7/18/2000  | Blankenbecler et al. | Of Record |
|  | U-079 | 6791754   | 9/14/2004  | Ogawa                | Of Record |
|  | U-080 | 6818158   | 11/16/2004 | Pham et al.          | Of Record |
|  | U-081 | 5,448,312 | 9/5/1995   | Roffman et al.       | Of Record |

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|       | U-084 | 5,684,560             | 11/4/1997  | Roffman et al. | Of Record |
|       | U-085 | 5,715,031             | 2/3/1998   | Roffman et al. | Of Record |
|       | U-086 | 5,796,462             | 8/18/1998  | Roffman et al. | Of Record |
|       | U-087 | 5,805,260             | 9/8/1998   | Roffman et al. | Of Record |
|       | U-088 | 5,847,802             | 12/8/1998  | Menezes et al. | Of Record |
|       | U-089 | 5,929,969             | 7/27/1999  | Roffman        | Of Record |
|       | U-090 | 6,520,638             | 2/18/2003  | Roffman et al. | Of Record |
|       | U-091 | 6,582,076             | 6/24/2003  | Roffman et al. | Of Record |
|       | U-092 | 6,709,103             | 3/23/2004  | Roffman et al. | Of Record |
|       | U-093 | 4,504,982             | 3/19/1985  | Burk           | Of Record |
|       | U-094 | 6,755,524             | 6/2004     | Ruben et al.   |           |
|       | U-095 | 7,111,938             | 9/26/2006  | Andino et al.  |           |
| Date: |       | Examiner's Signature: |            |                |           |

**LISTING OF UNITED STATES PUBLISHED APPLICATIONS - P Series**

| EXAMINER<br>REFERENCE<br>NUMBER<br>(P<br>SERIES) | PUBLICATION<br>NUMBER | PUBLICATION<br>DATE | NAME OF PATENTEE OR<br>APPLICANT | PAGELINKS TO THE RELATED PUBLISHED PRIORITY<br>MATERIAL AND/OR IDENTIFICATION OF PRIORITY<br>APPLICATION IN WHICH REFERENCE CITED<br>("Of Record" indicates that the reference is<br>already of record.) |
|--------------------------------------------------|-----------------------|---------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-001                                            | 2002/0093701          | 7/1/2002            | Zhang et al.                     | Of Record                                                                                                                                                                                                |
| P-002                                            | 2002/0105617          | 8/1/2002            | Norrhy et al.                    | Of Record                                                                                                                                                                                                |
| P-003                                            | 2003/0014107          | 1/1/2003            | Reynard                          | Of Record                                                                                                                                                                                                |
| P-004                                            | 2003/0063254          | 4/1/2003            | Piers et al.                     | Of Record                                                                                                                                                                                                |
| P-005                                            | 2004/0080710          | 4/1/2004            | Wooley et al.                    | Of Record                                                                                                                                                                                                |
| P-006                                            | 2004/0088050          | 5/1/2004            | Norrhy et al.                    | Of Record                                                                                                                                                                                                |
| P-007                                            | 2004/0138746          | 7/1/2004            | Aharoni et al.                   | Of Record                                                                                                                                                                                                |
| P-008                                            | 2004/0252274          | 12/1/2004           | Morris et al.                    | Of Record                                                                                                                                                                                                |
| P-009                                            | 2005/0057720          | 3/1/2005            | Morris et al.                    | Of Record                                                                                                                                                                                                |
| P-010                                            | 2005/0264757          | 12/1/2005           | Morris et al.                    | Of Record                                                                                                                                                                                                |
| P-011                                            | 2006/0004446          | 1/1/2006            | Aharoni et al.                   | Of Record                                                                                                                                                                                                |
| P-012                                            | 2006/0139570          | 6/1/2006            | Blum et al.                      | Of Record                                                                                                                                                                                                |
| P-013                                            | 2004/0246440          | 12/2004             | Andino et al.                    |                                                                                                                                                                                                          |
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**LISTING OF FOREIGN AND INTERNATIONAL PATENT DOCUMENTS - F Series**

| EXAMINE<br>R<br>INITIALS | REFEREN<br>CE<br>NUMBER<br>(F<br>SERIES) | PUBLICATION<br>NUMBER | PUBLICATION<br>DATE | COUNT<br>RY OR<br>REGION | PAGE/LINE AND FIGURE/ELEMENT OF<br>RELEVANT MATERIAL<br>("Of Record" indicates that the reference<br>is already of record.) | ENGLISH<br>LANGUAGE<br>TRANSLATI<br>ON<br>ATTACHED?<br>(YES OR NO)<br>AND<br>IDENTIFICA<br>TION OF<br>PRIORITY<br>APPLICATIO<br>N IN WHICH<br>REFERENCE<br>IS CITED |
|--------------------------|------------------------------------------|-----------------------|---------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | F-001                                    | WO 92/22264           | 6/1/1992            | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-002                                    | WO 94/13225           | 12/1/1992           | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-003                                    | WO 97/24639           | 12/1/1996           | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-004                                    | WO 98/31299           | 7/1/1998            | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-005                                    | WO 99/07309           | 7/1/1998            | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-006                                    | WO 99/23526           | 10/1/1998           | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-007                                    | WO 00/76426           | 12/21/200<br>0      | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-008                                    | WO 01/89424           | 11/29/200<br>1      | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-009                                    | WO 02/34158           | 5/2/2002            | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-010                                    | WO<br>02/084381       | 10/1/2002           | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-011                                    | WO<br>02/088830       | 11/1/2002           | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-012                                    | WO<br>04/013680       | 7/1/2003            | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-013                                    | WO<br>04/090611       | 3/1/2004            | PCT                      | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-014                                    | EP 0 037 529          | 10/1/1981           | EP                       | Of Record                                                                                                                   | Foreign<br>Languag<br>e<br>w/Englis<br>h<br>Abstract                                                                                                                |
|                          | F-015                                    | EP 0 335 731          | 10/1/1989           | EP                       | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-016                                    | EP 0 342 895          | 11/1989             | EP                       | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-017                                    | EP 0 375 291          | 12/1989             | EP                       | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-018                                    | EP 0 457 553          | 11/1991             | EP                       | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-019                                    | EP 0 470 811          | 2/1992              | EP                       | Of Record                                                                                                                   |                                                                                                                                                                     |
|                          | F-020                                    | EP 0 605 841          | 7/1994              | EP                       | Of Record                                                                                                                   |                                                                                                                                                                     |

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|       | F-021 | EP 0 681 198          | 11/1995 | EP | Of Record |  |
|       | F-022 | EP 1 376 203          | 1/2004  | EP | Of Record |  |
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**LISTING OF NON PATENT LITERATURE - O Series**

| EXAMINER INITIALS | REFERENCE NUMBER (O Series) | PUBLICATION DATE | INCLUDE IN SEQUENCE: Name of first author (in CAPITAL LETTERS), Title in quotation marks, name of publication, date of publication, page numbers, publisher, city of publication, and country of publication                     | ENGLISH LANGUAGE TRANSLATION ATTACHED? (YES OR NO) AND/OR INDICIFICATION OF PRIORITY DATE APPLICATION IN WHICH REFERENCE IS CITED ("Of Record" indicates that the reference is already of record.) |
|-------------------|-----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | O-001                       |                  | Atchison. Optical design of intraocular lenses. I. On-axis performance, <u>Optometry &amp; Vision Science</u> . Vol. 66, No. 8, pp. 492-506.                                                                                     | Of Record                                                                                                                                                                                          |
|                   | O-002                       |                  | Atchison. Optical design of intraocular lenses. II. On-axis performance, <u>Optometry &amp; Vision Science</u> . Vol. 66, No. 9, pp. 579-590.                                                                                    | Of Record                                                                                                                                                                                          |
|                   | O-003                       |                  | Atchison. Optical design of intraocular lenses. III. On-axis performance, <u>Optometry &amp; Vision Science</u> . Vol. 66, No. 10, pp. 671-681.                                                                                  | Of Record                                                                                                                                                                                          |
|                   | O-004                       |                  | Atchison. Refractive errors induced by displacement of intraocular lenses within the pseudophakic eye. <u>Optometry &amp; Vision Science</u> . Vol. 66, No. 3, pp. 146-152.                                                      | Of Record                                                                                                                                                                                          |
|                   | O-005                       |                  | Atchison. Third-order aberrations of pseudophakic eyes. <u>Ophthal. Physiol. Opt.</u> April 1989. Vol. 9, pp. 205-211.                                                                                                           | Of Record                                                                                                                                                                                          |
|                   | O-006                       |                  | Bonnet, et al. New method of topographical ophthalmometry-its theoretical and clinical applications. <u>American Journal of Optometry and Archives of American Academy of Optometry</u> . May 1962. Vol. 39, No. 5, pp. 227-251. | Of Record                                                                                                                                                                                          |
|                   | O-007                       |                  | Guillon et al. Corneal topography: a clinical model. <u>Ophthal. Physiol. Opt.</u> 1986. Vol. 6, No. 1, pp. 47-56.                                                                                                               | Of Record                                                                                                                                                                                          |
|                   | O-008                       |                  | Ei Hage et al. Contribution of the crystalline lens to the spherical aberration of the eye. <u>Journal of the Optical Society of America</u> . February 1973. Vol. 63, No. 2, pp. 205-211.                                       | Of Record                                                                                                                                                                                          |
|                   | O-009                       |                  | Kiely et al. The mean shape of the human cornea. <u>Optica ACTA</u> . 1982. Vol. 29, No. 8, pp. 1027-1040.                                                                                                                       | Of Record                                                                                                                                                                                          |

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|  | O-010 | Lindsay, et al. Descriptors of corneal shape. <u>Optometry and Vision Science</u> . February 1998. Vol. 75, No. 2, pp. 156-158.                                                                                 | Of Record |
|  | O-011 | Lotmar. Theoretical eye model with aspherics. <u>Journal of the Optical Society of America</u> . November 1971. Vol. 61, No. 11, pp. 1522-1529.                                                                 | Of Record |
|  | O-012 | Mandell, O.D. Ph.D., et al. Mathematical model of the corneal contour, School of Optometry, University of California, Berkeley. pp. 183-197.                                                                    | Of Record |
|  | O-013 | Smith et al. The spherical aberration of intra-ocular lenses. <u>Ophthal. Physiol. Opt.</u> July 1988. Vol. 8, pp. 287-294.                                                                                     | Of Record |
|  | O-014 | Townsley. New knowledge of the corneal contour. Pp. 38-43.                                                                                                                                                      | Of Record |
|  | O-015 | Alvarez, S. L. et al. Spectral threshold: measurement and clinical applications, <u>British Journal of Ophthalmology</u> , 67, 1983, pp. 504-507.                                                               | Of Record |
|  | O-016 | Cohen, A. L. Practical design of a bifocal hologram contact lens or intraocular lens, <u>Applied Optics</u> , Vol. 31, No. 19, July 1, 1992, pp. 3750-3754.                                                     | Of Record |
|  | O-017 | Dwyer, W. O. et al. Racial differences in color vision: do they exist? <u>American Journal of Optometry &amp; Physiological Optics</u> , Vol. 52, March 1975, pp. 224-229.                                      | Of Record |
|  | O-018 | Geun-Young, Y et al. Visual performance after correcting the monochromatic and chromatic aberrations of the eye, <u>Journal of the Optical Society of America</u> , Vol. 19, No. 2, February 2002, pp. 266-275. | Of Record |
|  | O-019 | Griswold M. S. et al. Scotopic spectral sensitivity of phakic and aphakic observers extending into the near ultraviolet, <u>Vision Res.</u> , Vol. 32, No. 9, 1992, pp. 1739-1743.                              | Of Record |
|  | O-020 | Guirao, A. et al. Corneal wave aberration from videokeratography: accuracy and limitations of the procedure, <u>Journal of the Optical Society of America</u> , Vol. 17, No. 6, June 2000, pp. 955-965.         | Of Record |

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|  | O-021 | Kokoschka, S. et al. Influence of field size on the spectral sensitivity of the eye in the photopic and mesopic range, <u>American Journal of Optometry &amp; Physiological Optics</u> , Vol. 62, No. 2, 1985, pp. 119-126. | Of Record |
|  | O-022 | Marcos, S. et al. A new approach to the study of ocular chromatic aberrations, <u>Vision Research</u> , 39, 1999, pp. 4309-4323.                                                                                            | Of Record |
|  | O-023 | Mordi, J. A. et al. Influence of age on chromatic aberration of the human eye, <u>American Journal of Optometry &amp; Physiological Optics</u> , Vol. 62, No. 12, 1985, pp. 864-869.                                        | Of Record |
|  | O-024 | Navarro, R. et al. Accommodation-dependent model of the human eye with aspherics, <u>Journal of the Optical Society of America</u> , Vol. 2, No. 8, August 1985, pp. 1273-1281.                                             | Of Record |
|  | O-025 | Smith Kinney, J. A. Sensitivity of the eye to spectral radiation at scotopic and mesopic intensity levels, <u>Journal of the Optical Society of America</u> , Vol. 45, No. 7, July 1955, pp. 507-514.                       | Of Record |
|  | O-026 | Said, F. S. et al. The variation with age of the spectral transmissivity of the living human crystalline lens, <u>Gerontologia</u> , 3, 1959, pp. 213-231.                                                                  | Of Record |
|  | O-027 | Thibos, L. N. et al. The chromatic eye: a new reduced-eye model of ocular chromatic aberration in humans, <u>Applied Optics</u> , Vol. 31, No. 19, July 1, 1992, pp. 3594-3600.                                             | Of Record |
|  | O-028 | Thibos, L. N. et al. Theory and measurement of ocular chromatic aberration, <u>Vision Res.</u> , Vol. 30, No. 1, September 26, 1988, pp. 33-49.                                                                             | Of Record |
|  | O-029 | Verriest, G. The spectral curve of relative luminous efficiency in different age groups of aphakic eyes, <u>Mod. Probl. Ophthal.</u> , Vol. 13, 1973, pp. 314-317.                                                          | Of Record |
|  | O-030 | Artal et al. (November 1, 1998). Contributions of the cornea and the lens to the aberrations of the human eye. <u>Optics Letters</u> . Vol. 23, No. 21, pp. 1713-1715.                                                      | Of Record |

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|  | O-031 | Glasser et al. (1998). Presbyopia and the optical changes in the human crystalline lens with age. <i>Vision Res.</i> Vol. 38, No. 2, pp. 209-229.                                                                         | Of Record |
|  | O-032 | Liang et al. (July 1994). Objective measurement of wave aberrations of the human eye with the use of a Hartman-Shack wave-front sensor. <i>Journal of the Optical Society of America</i> . Vol. 11, No. 7, pp. 1949-1957. | Of Record |
|  | O-033 | Malacara et al. (June 1990). Wavefront fitting with discrete orthogonal polynomials in a unit radius circle. <i>Optical Engineering</i> . Vol. 29, No. 6, pp. 672-675.                                                    | Of Record |
|  | O-034 | Schwiegerlind et al. (October 1995). Representation of videokeratoscopic height data with Zernike polynomials. <i>Journal of the Optical Society of America</i> . Vol. 12, No. 10, pp. 2105-2113.                         | Of Record |
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